

## t66\_comput\_1

(TMK1WdXPRgpG1NwRsQBoPXhz9ApSFfNUJRP)

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Let  $v6\_comput\_1 : \iota \Rightarrow o$  be given. Let  $k2\_comput\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m2\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_finseq\_2 : \iota \Rightarrow \iota$  be given. Let  $v3\_comput\_1 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_funct\_6 : \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_comput\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $m1\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_comput\_1 : \iota \Rightarrow o$  be given. Let  $v5\_comput\_1 : \iota \Rightarrow o$  be given. Let  $r1\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k19\_margrel1 : \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m2\_rfunct\_3 X1 (k3\_finseq\_2 \\ X0) X0 (k2\_comput\_1 X0)) \Rightarrow (\forall X2. ((v3\_comput\_1 X2) \wedge (m2\_finseq\_1 \\ X2 (k2\_comput\_1 X0))) \Rightarrow ((r1\_tarski (k9\_xtuple\_0 (k3\_relat\_1 ( \\ k6\_funct\_6 X2) X1)) (k4\_finseq\_2 (k1\_comput\_1 X2) X0)) \wedge ((r1\_tarski \\ (k10\_xtuple\_0 (k3\_relat\_1 (k6\_funct\_6 X2) X1)) X0) \wedge (k3\_relat\_1 \\ (k6\_funct\_6 X2) X1 \in k2\_comput\_1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 \\ X1 k5\_numbers) \Rightarrow (k5\_comput\_1 X0 X1 \in k2\_comput\_1 k5\_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 \\ X1 k5\_numbers) \Rightarrow (k4\_comput\_1 X0 X1 \in k2\_comput\_1 k5\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k5\_numbers) \Rightarrow (k3\_comput\_1 X0 X1 \in k2\_comput\_1 k5\_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (5)$$

Assume the following.

$$m1\_subset\_1 k1\_xboole\_0 k4\_ordinal1 \quad (6)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0 X2) \wedge (m1\_rfunct\_3 X2 X0 X1)) \Rightarrow (\forall X3.(m2\_rfunct\_3 X3 X0 X1 X2) \Leftrightarrow (m1\_subset\_1 X3 X2)) \quad (8)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (9)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (10)$$

Assume the following.

$$(\neg v1\_xboole\_0 k4\_ordinal1) \wedge (v3\_ordinal1 k4\_ordinal1) \quad (11)$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0 (k2\_comput\_1 X0)) \wedge (m1\_rfunct\_3 (k2\_comput\_1 X0) (k3\_finseq\_2 X0) X0) \quad (12)$$

Assume the following.

$$\forall X0.(v6\_comput\_1 X0) \Leftrightarrow ((k3\_comput\_1 k6\_numbers k6\_numbers \in X0) \wedge ((k4\_comput\_1 np\_1 np\_1 \in X0) \wedge ((\forall X1.(m1\_subset\_1 X1 k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow (((r1\_xxreal\_0 np\_1 X2) \wedge (r1\_xxreal\_0 X2 X1)) \Rightarrow (k5\_comput\_1 X1 X2 \in X0)))))) \wedge ((v4\_comput\_1 X0) \wedge (v5\_comput\_1 X0)))) \quad (13)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v5\_comput\_1 X0) \Leftrightarrow (\forall X1.(m2\_r\_funct\_3 X1 (k3\_finseq\_2 \\
& \quad k5\_numbers) k5\_numbers (k2\_comput\_1 k5\_numbers)) \Rightarrow (\forall X2. \\
& (m2\_r\_funct\_3 X2 (k3\_finseq\_2 k5\_numbers) k5\_numbers (k2\_comput\_1 \\
& \quad k5\_numbers)) \Rightarrow (\forall X3.(m2\_r\_funct\_3 X3 (k3\_finseq\_2 k5\_numbers) \\
& \quad k5\_numbers (k2\_comput\_1 k5\_numbers)) \Rightarrow (\forall X4.(m1\_subset\_1 \\
& \quad X4 k5\_numbers) \Rightarrow (((r1\_comput\_1 X1 X2 X3 X4) \wedge ((X2 \in X0) \wedge (X3 \in X0))) \Rightarrow \\
& \quad (X1 \in X0))))))
\end{aligned} \tag{14}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v4\_comput\_1 X0) \Leftrightarrow (\forall X1.(m2\_r\_funct\_3 X1 (k3\_finseq\_2 \\
& \quad k5\_numbers) k5\_numbers (k2\_comput\_1 k5\_numbers)) \Rightarrow (\forall X2. \\
& ((v3\_comput\_1 X2) \wedge (m2\_finseq\_1 X2 (k2\_comput\_1 k5\_numbers))) \Rightarrow \\
& (((X1 \in X0) \wedge ((k19\_margrel1 X1 = k3\_finseq\_1 X2) \wedge (r1\_tarski (k10\_xtuple\_0 \\
& \quad X2) X0))) \Rightarrow (k3\_relat\_1 (k6\_funct\_6 X2) X1 \in X0))))
\end{aligned} \tag{15}$$

**Theorem 1**  $v6\_comput\_1 (k2\_comput\_1 k5\_numbers)$ .